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Factors affecting Internet of Things to Sustain Built Heritage in Egypt

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Abstract:

It has been impossible nowadays not to come across the term “Internet of Things” (IoT) or “Big Data Analytics” one way or another. Information communication technology (ICT) has significantly affected the way data & information are analysed, presented, exchanged and processed. ICT in particular are being touted as the catalyst by which governments and organisations move away from geographic and time constraints to immediate, customised responses to citizens and customer needs. The advent of the information era and its acceleration effect on globalisation are leading the world to a new economic order driven by information and knowledge based economies. In an increasingly globalised world, where information technology has become one of the key determinants of growth, many developing countries are facing new challenges because of the emerging of information age. The enabling role that Big Data Analysis, IoT & ICT can play in facilitating and accelerating socio-economic development is now being recognised by most governments; which need more investigation and exploration. Therefore, governments around the globe are recognising the power of the Internet and are making efforts to bring about social change in the move to the information economy to enable Visual Analytics of Egyptian Heritage. This issue can be considered as a promising innovative project in Egypt to respond to the most recent challenges of social change (individualisation, pluralisation of lifestyles, education, learning, shift of focus in values). Accordingly, in order to enable the implementation of such new digital innovation strategies, government infrastructures will be in need of new governance principles, tools, and processes in order to effectively and efficiently manage, coordinate, and connect the required resources within and beyond the existing boundaries. Thus, many new opportunities are emerging for researchers to contribute to the solution of demanding real-world challenges and create direct value for customers to enable visual analytics of Egyptian Heritage for quality of life; social welfare and economic impact in Egypt.